

searching Seq2 library

Comparison of:

(A) Seq1 >Seq1 (540 nucleotides)
(B) Seq2 >Seq2 (540 nucleotides)

Seq ID NO: 1
Seq ID NO: 3

- 540 nt
- 540 nt

using matrix file DNA

99.3% identity in 540 nt overlap; init: 2132, opt: 2132

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Seq1  ATGCCGATCGAGTACAAGCCTGAAATCCAGCACTCCGATTTCAAGGACCTGACCAACCTG
X:.....:.....:.....:.....:.....:.....:.....:.....:.....:.....:
Seq2  ATGCCGATCAAGTACAAGCCTGAAATCCAGCACTCCGATTTCAAGGACCTGACCAACCTG
      10      20      30      40      50      60

Seq1  ATCCACTTCCAGAGCATGGAAGGCAAGATCTGGCTTGGCGAACAACGCATGCTGTTGCTG
      70      80      90     100     110     120
Seq2  ATCCACTTCCAGAGCATGGAAGGCAAGATCTGGCTTGGCGAACAACGCATGCTGTTGCTG
      70      80      90     100     110     120

Seq1  CAGTCTTCAGCGATGGCCAGCTTTCGCCGGGAAATGGTCAATACCCTGGGCATCGAACGC
      130     140     150     160     170     180
Seq2  CAGTTTTTCAGCGATGGCCAGCTTTCGCCGGGAAATGGTCAATACCCTGGGCATCGAACGC
      130     140     150     160     170     180

Seq1  GCCAAGGGCTTGTTCTCGCCCATGGTTACCAGTCCGGCCTGAAGGATGCCGAACTGGCC
      190     200     210     220     230     240
Seq2  GCCAAGGGCTTGTTCTCGCCCATGGTTACCAGTCCGGCCTGAAGGATGCCGAACTGGCC
      190     200     210     220     230     240

Seq1  AGGAAGCTGAGACCGAATGCCAGCGAAGTCGGCATGTTCTCGCTGGGCCGAGATGCAT
      250     260     270     280     290     300
Seq2  AGGAAGCTGAGACCGAATGCCAGCGAAGTCGGCATGTTCTCGCTGGGCCGAGATGCAT
      250     260     270     280     290     300

Seq1  TCACTCAAGGGTCTGGTCAAGGTCCGCCCCACCGAGCTCGATATCGACAAGGAATACGGG
      310     320     330     340     350     360
Seq2  TCACTCAAGGGTCTGGTCAAGGTCCGCCCCACCGGCTCGATATCGACAAGGAATACGGG
      310     320     330     340     350     360

Seq1  CGCTTCTATGCCGAGATGGAGTGGATCGACTGGTTCGAGGTGGAAATCTGCCAGACCGAC
      370     380     390     400     410     420
Seq2  CGCTTCTATGCCGAGATGGAGTGGATCGACTGGTTCGAGGTGGAAATCTGCCAGACCGAC
      370     380     390     400     410     420

Seq1  CTGGGGCAGATGCAAGACCCGGTGTGCTGGACTGTGCTCGGCTACGCCTGCGCCTATTCC
      430     440     450     460     470     480
Seq2  CTGGGGCAGATGCAAGACCCGGTGTGCTGGACTGTGCTCGGCTACGCCTGCGCCTATTCC
      430     440     450     460     470     480

Seq1  TCGGCGTTTCATGGGCCGGGAAATCATCTTCAAGGAAGTCAGCTGCCGCGGCTGCGGCGGC
      490     500     510     520     530     540
Seq2  TCGGCGTTTCATGGGCCGGGAAATCATCTTCAAGGAAGTCAGCTGCCGCGGCTGCGGCGGC
      490     500     510     520     530     540

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54.5% identity in 55 nt overlap; init: 40, opt: 45

```
          490      500      510      520      530
Seq1  GGCCTTCATGGGCGGGGAAATCATCTTCAAGGAAGTCAGCTGCCGCGGCTGCGGC
      :::  : : X::::::::::X  ::  :  : : : : : : : : : : : :
Seq2  GGCCAGCTTTTCGCCGGGAAATGGTCAATACCCTGGGCATCGAACGCGCCAAGGGC
      140      150      160      170      180
```

52.7% identity in 110 nt overlap; init: 40, opt: 49

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          90      100      110      120      130
Seq1  AGGCAAGATCTGGCTTGGCGAACAGCGC-ATGCTGTTGCTGCAGTCTTCAGCGATGGCCA
      : : : : : : : : : : : : : : : : : : : : : : : :
Seq2  ATGCAAGACCCGGTGTGCTGGACTGTGCTCGGCTACGCCTGC--GCCTATTCCTCGGCGT
      430      440      450      460      470      480

      140      150      160      170      180
Seq1  GCTTTCGCCGGGAAATGGTCAATACCCTGGGCATCGAACGCGCCAAGGGC
      : : X::::::::::X  ::  :  : : : : : : : : : : :
Seq2  TCATGGGCGGGGAAATCATCTTCAAGGAAGTCAGCTGCCGCGGCTGCGGC
      490      500      510      520      530
```